



Special/Thin Type: Dimension table & tightening torque table

Unit : mm

Nominal Size	Pitch	Convex nut					Convex nut					Common to (1), (2)		Overall height I approx	Bottom surface squariness (Max)	Tightening torque(N.m) *Common to material/strength	
		D		B ₁		b	D ₁		D ₂	B ₁		S	g			Convex nut	Concave nut(Recommended)
		Basic	Tolerance	Basic	Tolerance		Basic	Tolerance	Basic (approx.)	Basic	Tolerance						
M20	1	32	0 -0.5	6	0 -0.5	3.5	32	0 -0.5	26	6	0 -0.5	4	28	9.5	0.07	*	55
M25	1.5	38	0 -0.5	7	0 -0.5	3	38	0 -0.5	32	7	0 -0.5	5	34	10		*	80
M30	1.5	45	0 -0.5	7	0 -0.5	3	45	0 -0.5	38	7	0 -0.5	5	41	10		*	115
M35	1.5	52	0 -0.5	8	0 -0.5	4	52	0 -0.5	44	8	0 -0.5	5	48	12		*	130
M40	1.5	58	0 -0.5	9	0 -0.5	5	58	0 -0.5	50	9	0 -0.5	6	53	14		*	155
M45	1.5	65	0 -0.5	10	0 -0.5	6	65	0 -0.5	56	10	0 -0.5	6	60	16		*	170
M50	1.5	70	0 -0.5	11	0 -0.5	7	70	0 -0.5	61	11	0 -0.5	6	65	18		*	200
M55	2	75	0 -0.5	11	0 -0.5	6	75	0 -0.5	67	11	0 -0.5	7	69	17		*	210
M60	2	80	0 -0.5	11	0 -0.5	6	80	0 -0.5	73	11	0 -0.5	7	74	17		*	240
M65	2	85	0 -0.5	10	0 -0.5	5	85	0 -0.5	79	10	0 -0.5	7	79	15		*	255
M70	2	92	0 -0.5	10	0 -0.5	5	92	0 -0.5	85	10	0 -0.5	8	85	15		*	270
M75	2	98	0 -0.5	11	0 -0.5	6	98	0 -0.5	90	11	0 -0.5	8	91	17		*	300
M80	2	105	0 -0.5	12.5	0 -0.5	7.5	105	0 -0.5	95	12.5	0 -0.5	8	98	20		*	310
M85	2	110	0 -0.5	13.5	0 -0.5	8.5	110	0 -0.5	102	13.5	0 -0.5	8	103	22		*	340
M90	2	120	0 -0.5	13.5	0 -0.5	8.5	120	0 -0.5	108	13.5	0 -0.5	10	112	22		*	350
M95	2	125	0 -0.5	14	0 -0.5	9	125	0 -0.5	113	14	0 -0.5	10	117	23		*	380
M100	2	130	0 -0.5	15	0 -0.5	10	130	0 -0.5	120	15	0 -0.5	10	122	25		*	390

External dimensions : JIS B1554(2005)/ISO 2982

Threads screw tolerances : JIS B0209(2001)/ISO 965 6H

Please consult us the availability of the thin type of the size over M105.

The locking effect will not be changed even though the concave nut is installed first. Then, please tighten the concave nut based on the above recommended torque.

Please be advised that the dimensions or specifications may be subject to change without notice.

[PRECAUTIONS for use of the thin type of HLB]

Please install the convex nut first.

Do not tighten with a driver or a gad.

Please refrain from using where it will be applied a heavy load.

Please stop using immediately if there is any crack.

It does not deform or break by a spin load, but it is possible to have cracks or break when it is received a repetition load, therefore please stop using or change to standard type.

Please take care when you tighten or loosen the convex nut because the B dimension is very thin.